

ABSTRACT

ANALYSIS OF DRUG-RELATED PROBLEMS IN A HEALTHCARE FACILITY V.

Author: Thu Thao Truongová

Supervisor of the diploma thesis: PharmDr. Martin Doseděl, Ph.D.

Consultant: PharmDr. Veronika Měrková

Charles University, Faculty of Pharmacy in Hradec Králové, Department of Social and Clinical Pharmacy

INTRODUCTION

Medication errors are one of the most frequent medicinal errors. They affect patient's safety from the long-term point of view.¹ The great part of medication errors occurs on the level of drug administration.² In healthcare facilities mostly nurses are responsible for medication administration.³

AIM

To obtain and evaluate medication errors during drug administration by nurses in a healthcare facility.

METHODICS

A prospective observational study was conducted in the facility Hamzova léčebna for children and adults focusing on medical rehabilitation. Data collection was performed in May 2019 three consecutive days on each ward, where drugs were administered by nurse. Direct observation was done in morning, noon and evening drug administrations. Obtained data were recorded into prepared form and were compared with physician's medication order on the patient's record. Afterwards, the forms were transcribed into online database, data were transferred to MS Excel software programme and evaluated by descriptive statistics.

RESULTS

Seventeen nurses participated in this study and they performed 2 448 drug administrations in total. The most occurred way of administration was peroral route

(95,92 %). We registered 104 medication errors (4,25 %) in overall amount of administrations. The most common errors were in categories Wrong manipulation with drugs (32,80 %) and Missing date of the first opening (12,59 %). Seven serious errors (6,7 %) with a high risk of subsequent complications for a patient were identified. It was mostly inappropriate tablets splitting or crushing. We also observed adherence of nurses to hygiene standards, where in 37 cases (1,61 %) there was a violation of hygiene guidelines.

CONCLUSION

The occurrence of medication errors during drug administration by nurses is significant with potential impact on patient's safety. To minimize their occurrence, it can be done by implementation of preventive precautions.

KEY WORDS

Medication errors, drug administration, nurses

References

1. Choo J., Hutchinson A., Bucknall T., Nurses' role in medication safety, *J Nurs Manag*, 2010, 18(7), 853-861, doi:10.1111/j.1365-2834.2010.01164.x
2. Durham BB., The nurse's role in medication safety, *Nursing (Lond)*, 2015, 5-8
3. Cheek J., Nurses and the Administration of medications, *Clin Nurs Res*, 1997, 6, 253-274